

## CLAIMS:

- Sub Q3* 1. A diesel engine with a supercharger including a  
 5 supercharger for taking in and pressurizing outside air and  
 supplying the pressurized supercharged air into a cylinder, and  
 a heat exchanger, which is provided in a supercharged air  
 passage from an outlet port of said supercharger to an inlet port  
 of said cylinder and cools the supercharged air from said  
 supercharger,  
 10 wherein said heat exchanger is a hybrid type of heat  
 exchanger comprising  
 a first heat exchanger for carrying out heat exchange between  
 the supercharged air from the outlet port of said supercharger  
 and a first heat exchange medium, and  
 15 a second heat exchanger for carrying out heat exchange between  
 the supercharged air from an outlet port of said first heat  
 exchanger and a second heat exchange medium having higher  
 temperature than said first heat exchange medium, and  
 supplying the supercharged air after the heat exchange with  
 20 said second heat exchange medium to said cylinder.
2. The diesel engine with the supercharger in accordance  
 with Claim 1,  
 wherein the engine is a water cooling type of engine  
 25 with the supercharger using cooling water,

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